

#### Notes:

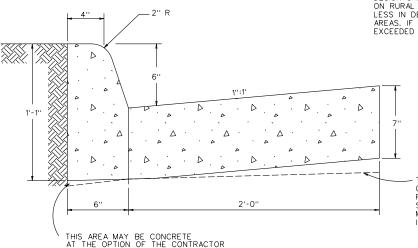
- 1. This item may be precast or cast in place.
- 2. Concrete to be Class A3 if cast in place, 4000 PSI if precast.
- 3. Curb having a radius of 300 feet, or less (along face of curb) will be paid for as radial curb
- 4. The depth of curb may be reduced as much as 3" (13" depth) or increased as much as 3" (19" depth) in order that the bottom of curb will coincide with the top of a course of the powement substructure. Otherwise the depth is to be 16" as shown. No adjustment in the price bid is to be made for a decrease or an increase in depth.
- This curb shall be used when design speed is greater than 40 MPH on Rural highways and 45 MPH in developed Urban and Suburban areas.
- When this standard is to be tied into existing barrier curb, the transition is to be made within 10' or the change in standards made at regular openings.

105 502

SPECIFICATION REFERENCE

# NOTES:

- 1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
- 3. COMBINATION CURB & GUTTER HAVING A RADIUS
  OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL
  BE PAID FOR AS RADIAL COMBINATION CURB &
  GUTTER
- 4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB AND GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
- 5. THIS CURB MAY BE USED WHEN
  DESIGN SPEED IS 40 MPH OR LESS
  ON RURAL HIGHWAYS AND 45 MPH OR
  LESS IN DEVELOPED URBAN & SUBURBAN
  AREAS. IF THESE DESIGN SPEEDS ARE
  EXCEEDED STANDARD CG-7 IS REQUIRED.



- THE BOITOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES PROVIDED A MINIMUM DEPTH OF 7" IS MAINTAINED.

SPECIFICATION REFERENCE

COMBINATION 6" CURB & GUTTER

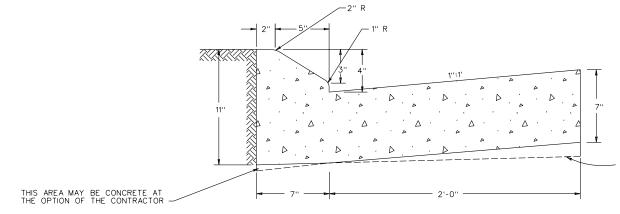
105 502

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CG-7

NOTES:

- 1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
- 2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
- 3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAID FOR AS RADIAL COMBINATION CURB & GUTTER.
- 4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB AND GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT
- 5. THIS CURB MAY BE USED WITH ANY DESIGN SPEED BUT IS REQUIRED WHEN DESIGN SPEED IS GREATER THAN 40 MPH ON RURAL HIGHWAYS AND 45 MPH IN DEVELOPED URBAN & SUBURBAN AREAS.
- 6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10'OR THE CHANGE IN STANDARDS MADE AT REGULAR OPENINGS.
- 7. WHEN COMBINATION MOUNTABLE CURB AND GUTTER IS USED, THE STANDARD ENTRANCE GUTTERS OR STANDARD CONNECTION FOR STREET INTERSECTIONS ARE TO HAVE THE MOUNTABLE CURB CONFIGURATION INCORPORATED.



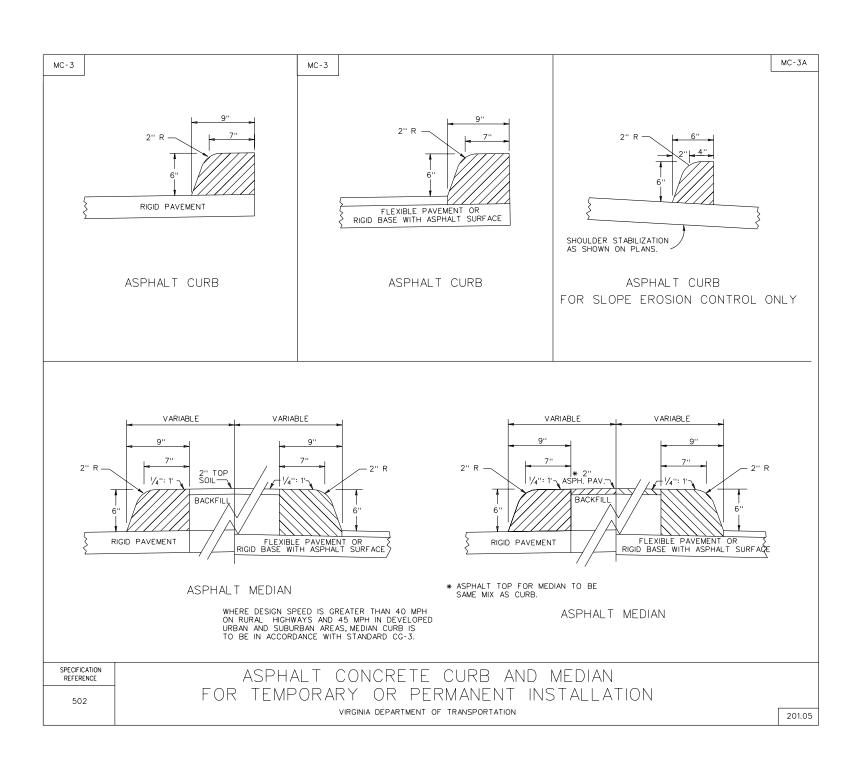
THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES PROVIDED A MIN. DEPTH OF 7" IS MAINTAINED

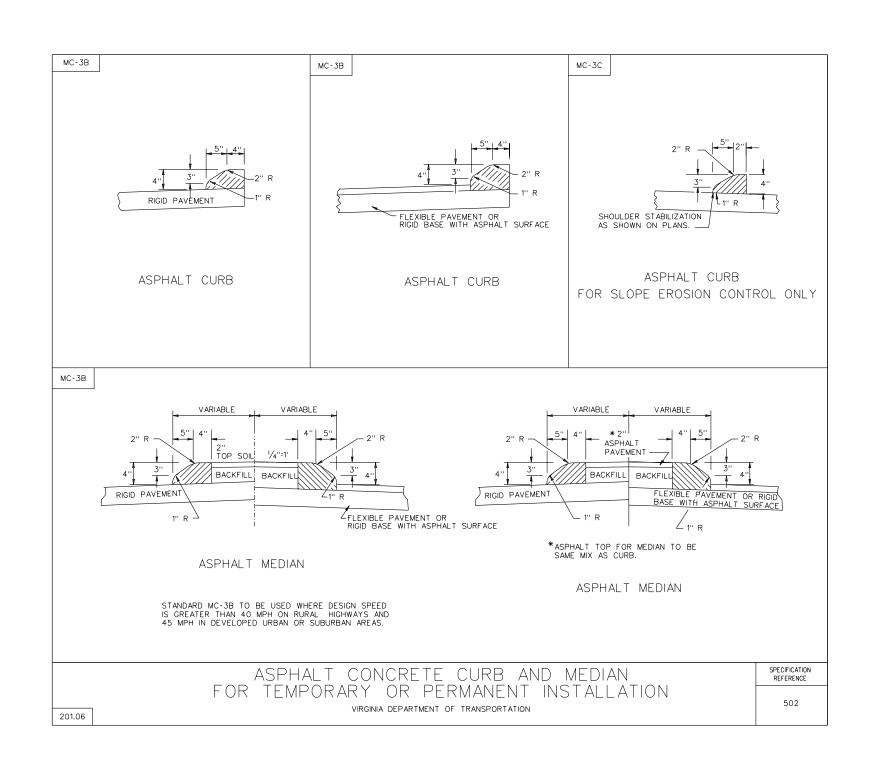
COMBINATION 4" CURB & GUTTER

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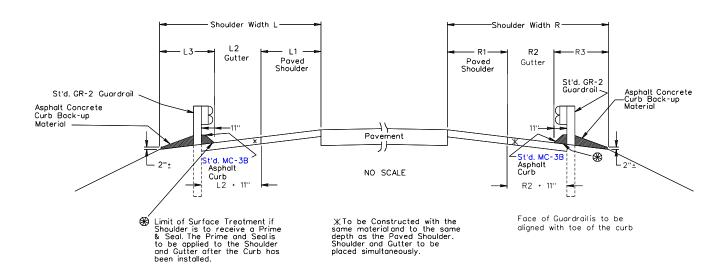




MC-4

LEFT OF TRAFFIC				
Shoulder Width L	L1	L2	L3	
15'	10'	2'	3'	
15'	4'	8'	3'	
15'	3'	9,	3'	
13'	3'	7'	3'	
12'	10'		2'	
1 1'	3'	5'	3'	
8'	4'	2'	2'	
8'	3'	3'	2'	

RIGHT OF TRAFFIC				
Shoulder Width R	R1	R2	R3	
15'	10'	2'	3'	
15'	6'	6'	3'	
13'	6'	4'	3'	
1 1'	6'	2'	3'	
9'	6'	_	3'	



ST'D. GR-2 & MC-3B (11") ASPHALT CURB INSTALLATION

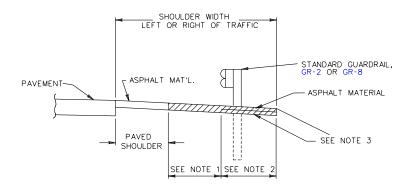
Sheet 1 of 2

SPECIFICATION REFERENCE

ASPHALT CURB AND GUTTER & ASPHALT PAVING UNDER GUARDRAIL

105 502

VIRGINIA DEPARTMENT OF TRANSPORTATION



RIGHT OF TRAFFIC				
SHOULDER WIDTH R	R1	R2	R3	
15'	10'	2'	3'	
15'	6'	6'	3'	
13'	6'	4'	3'	
1 1'	6'	2'	3'	
9'	6'		3'	

ASPHALT PAVING UNDER GUARDRAIL

(FOR USE WHERE ASPHALT CURB IS NOT REQUIRED)

### NOTES:

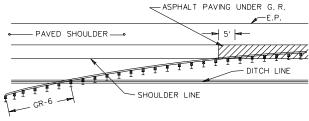
- TO BE CONSTRUCTED WITH THE SAME MATERIAL AND TO THE SAME DEPTH AS THE PAVED SHOULDER.
- 2. TO BE CONSTRUCTED WITH THE SAME ASPHALT MATERIALS AS THE PAVED SHOULDER TO THE FOLLOWING DEPTHS:

ALLOWABLE DEPTHS OF ASPHALT MATERIAL IM-19.01A OR IM-19.0D 2" MIN. BM-25.0 3" MIN. 4" MIN.

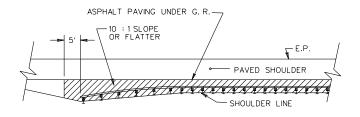
3. DEPTH OF ASPHALT MATERIAL MAY BE EXTENDED AT THE CONTRACTOR'S OPTION TO COINCIDE WITH THE BOTTOM OF THE PAVED SHOULDER COURSE AT NO INCREASE IN THE QUANTITY OF ASPHALT MATERIAL COMPUTED USING THE ABOVE SPECIFIED OFFTH

ADDITIONAL 5 FEET ASPHALT PAVING BEYOND POINT WHERE GUARDRAIL CROSSES SHOULDER LINE.

FOR ADDITIONAL DESIGN AND PLACEMENT INFORMATION SEE SHEET 1 OF 2.



GR-6 TERMINAL



GR-7 & GR-9 TERMINALS

METHODS FOR BEGINNING & ENDING ASPHALT PAVING UNDER GUARDRAIL AND GUARDRAIL INSTALLATION SITE PREPARATION REQUIREMENTS FOR GR-7 AND GR-9. SEE STANDARD GR-SP FOR SPECIFIC SITE PREPARATION REQUIREMENTS.

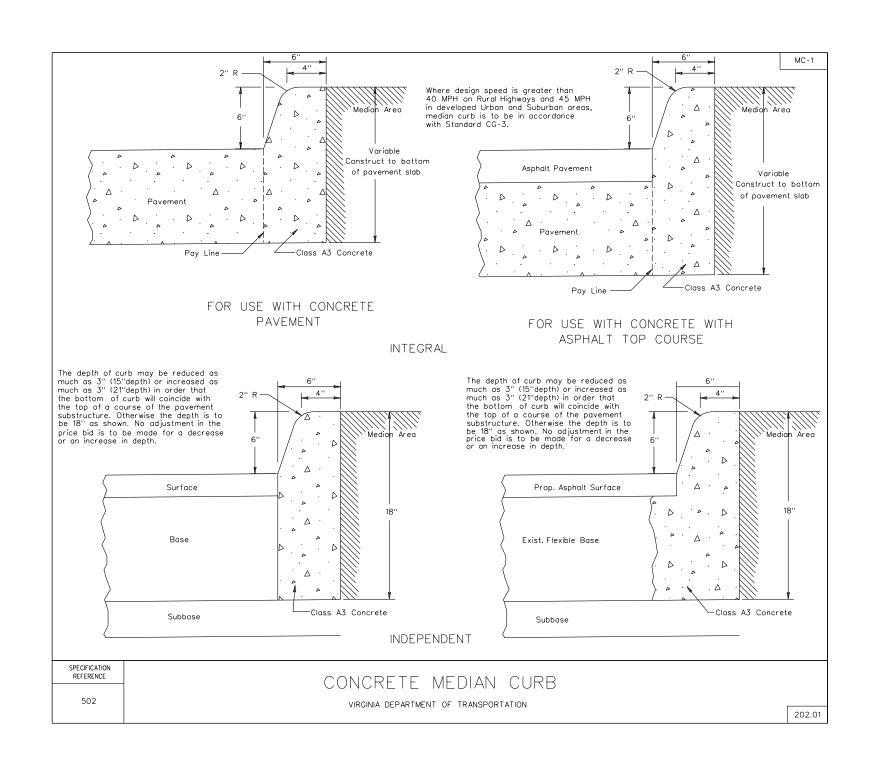
SHEET 2 OF 2

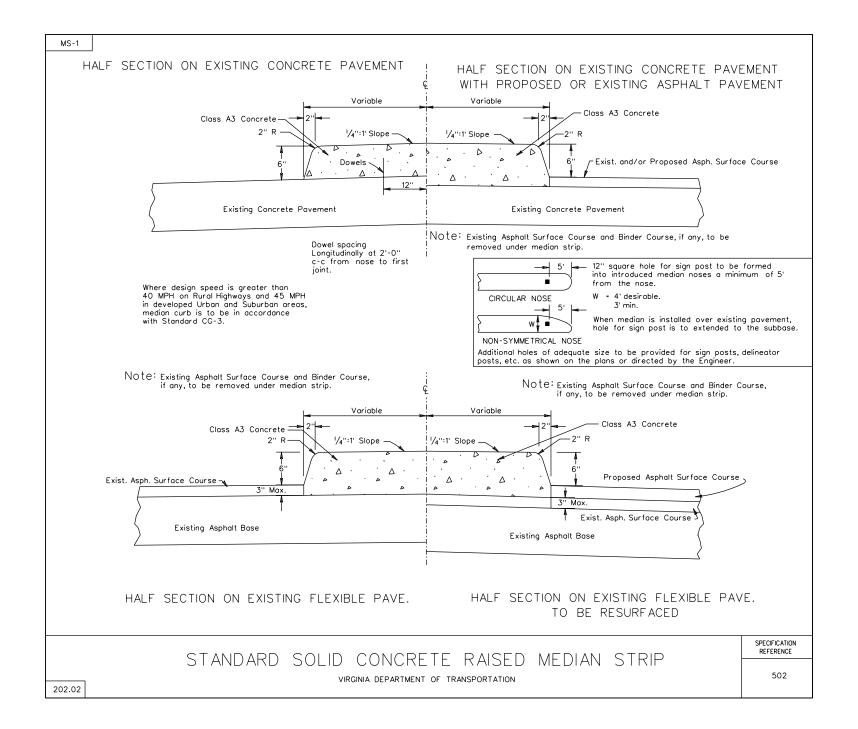
ASPHALT CURB AND GUTTER & ASPHALT PAVING UNDER GUARDRAIL

SPECIFICATION REFERENCE

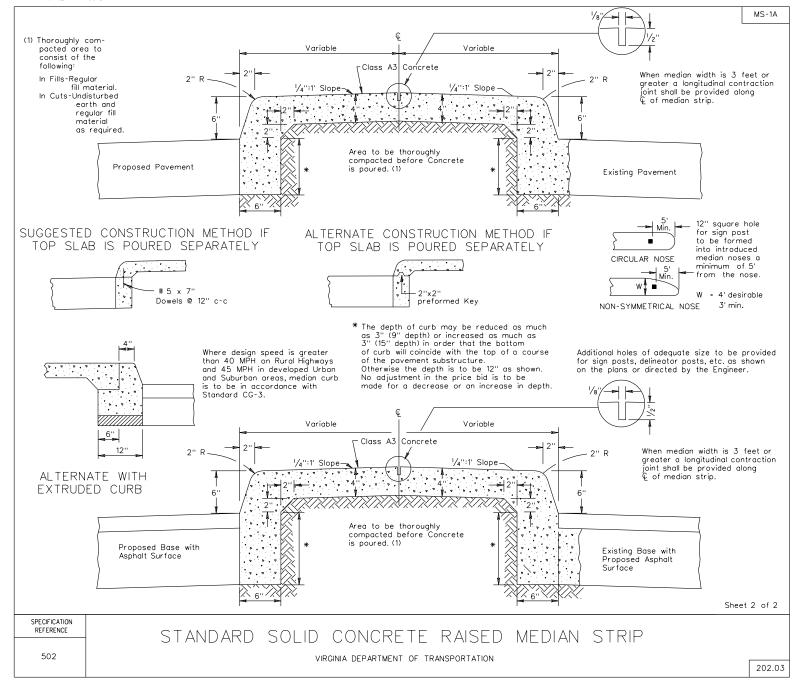
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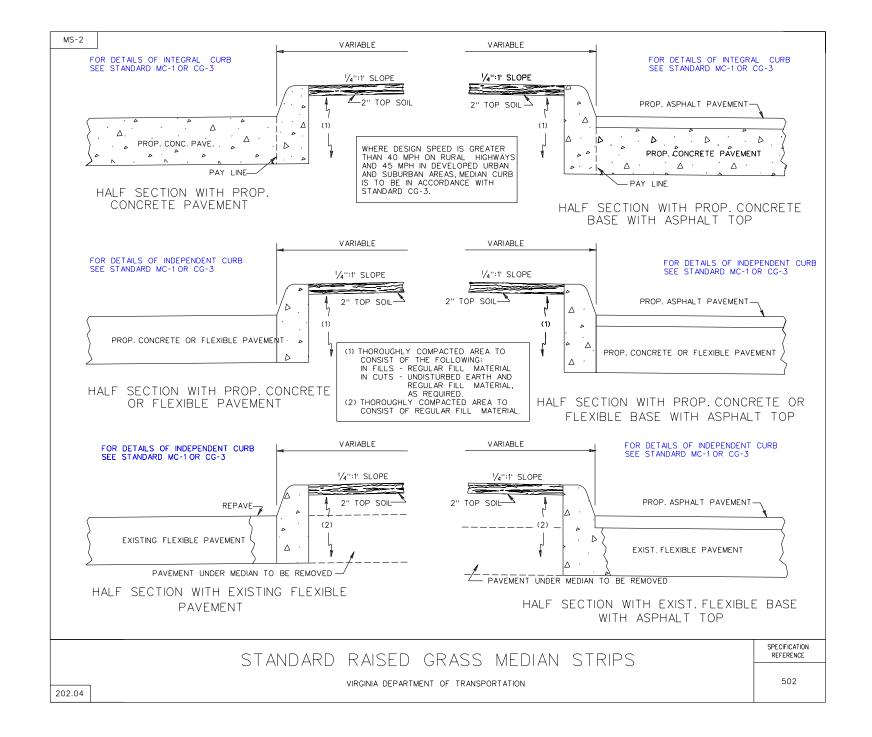
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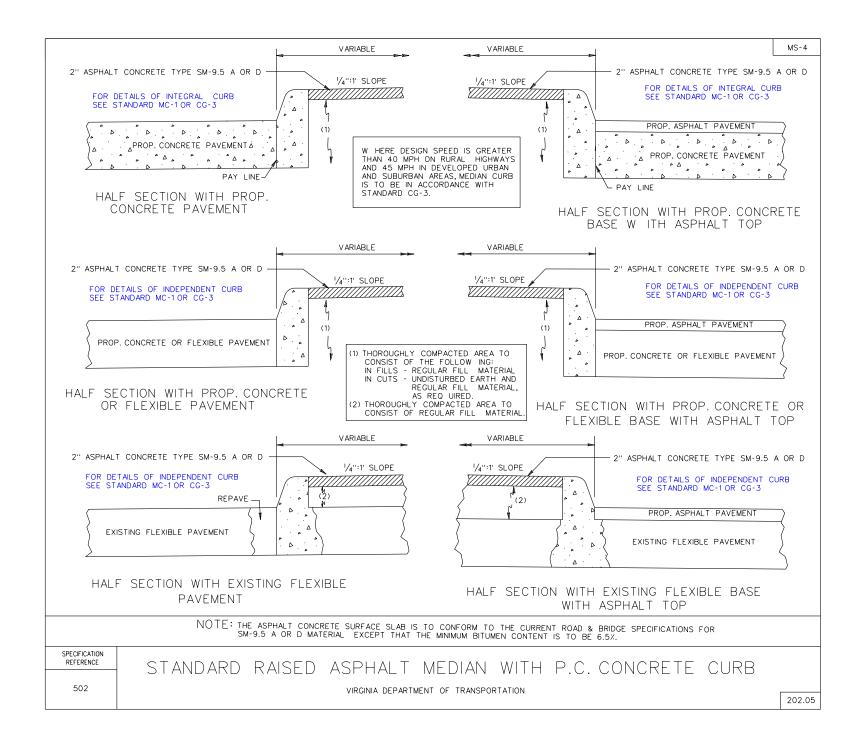


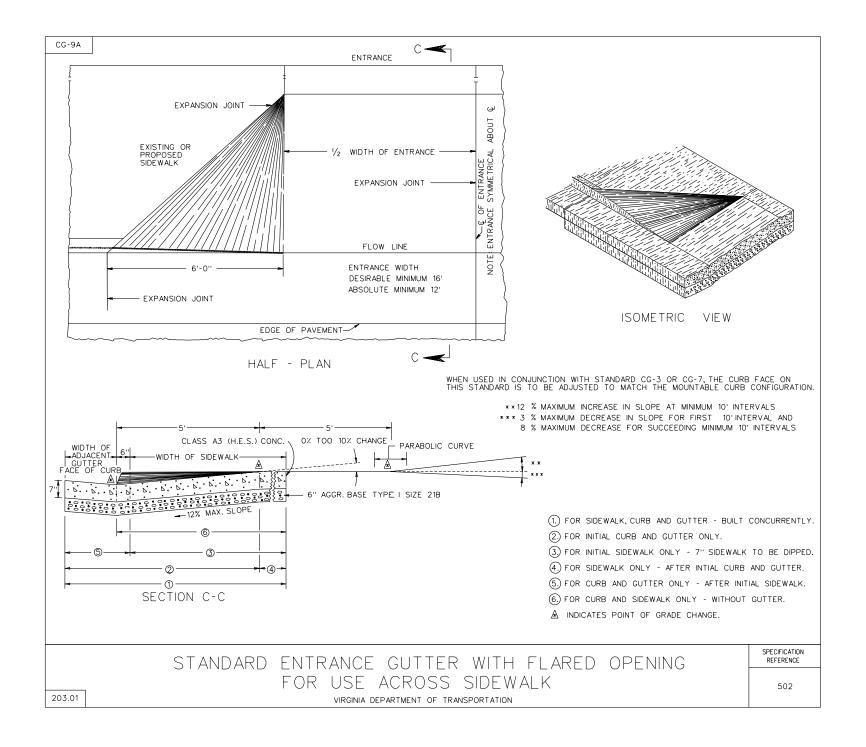


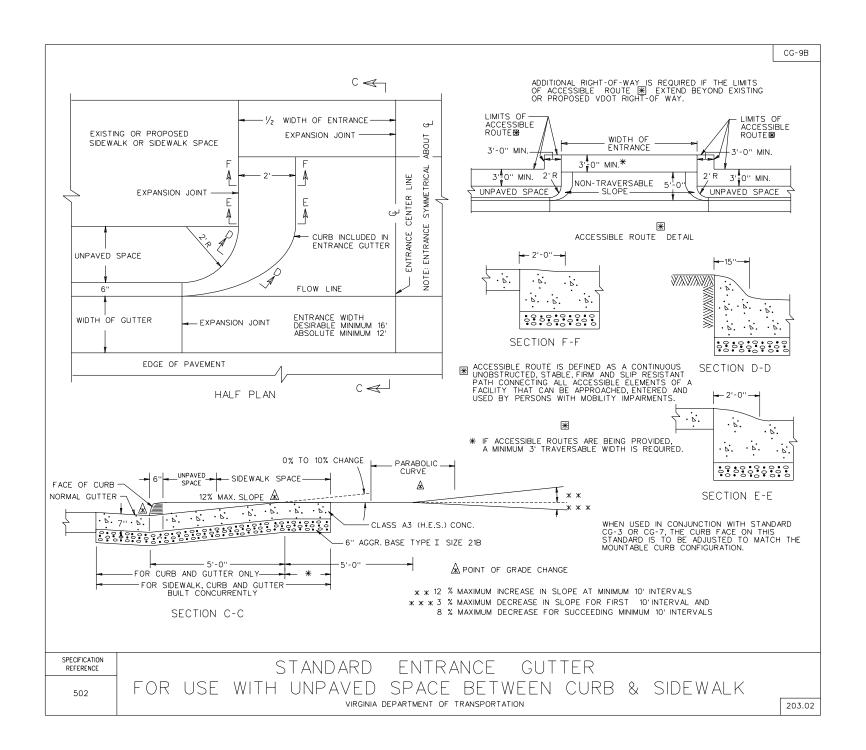
## REVISED 7/01

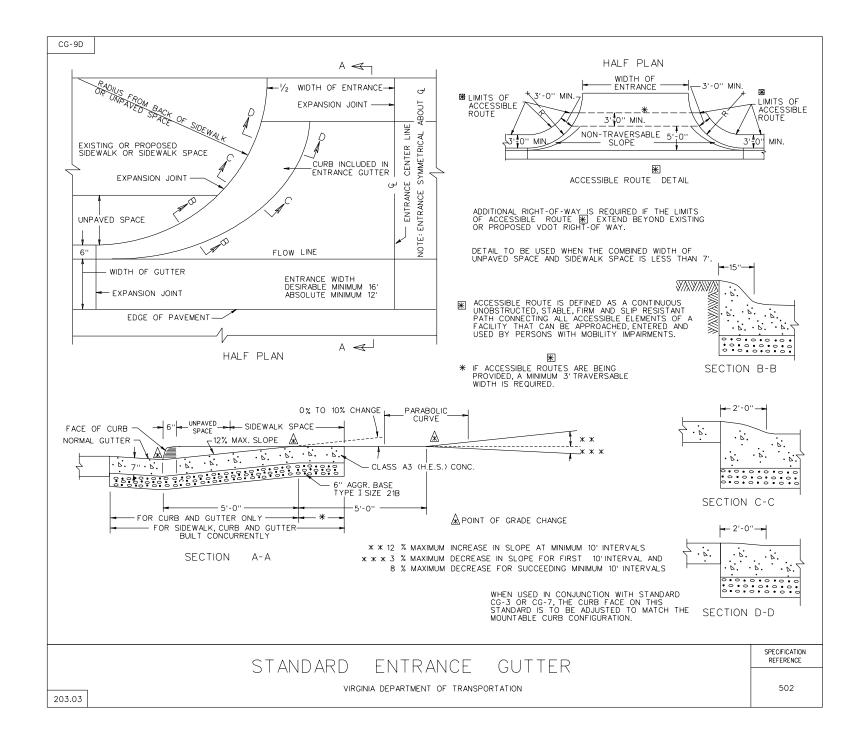




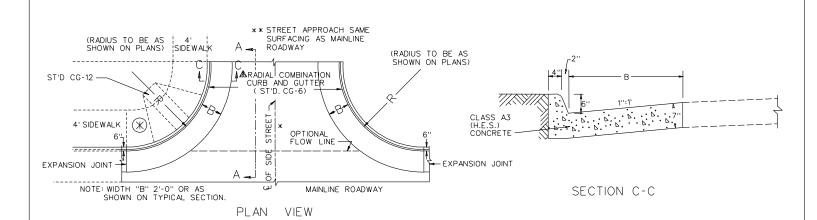


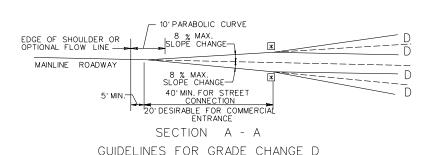






CG-11





ENTRANCE VOLUME	DESIRABLE	MAXIMUM
HIGH (MORE THAN 1500 VPD)	0 %	3 %
MEDIUM (500-1500 VPD)	≤ 3 %	6 %
LOW (LESS THAN 500 VPD)	≤ 6 %	8 %

CONSTRUCT GRADE CHANGES WITH A PARABOLIC CURVE.

WHEN THE ENTRANCE RADIICANNOT ACCOMMODATE
THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY
TRUCK TRAFFIC, THE DEPTH FOR SIDEWALK & CURB
RAMPS WITHIN THE LIMITS OF THE RADII SHOULD BE
INCREASED TO 7".

WHEN ST'D. CG-11 IS USED FOR ENTRANCES BUILT IN CONJUNCTION WITH VDOT PROJECTS, PLEASE NOTE THE FOLLOWING:

\*\* MAINLINE PAVEMENT SHALL BE CONSTRUCTED TO THE R/W LINE (EXCEPT ANY SUBGRADE STABILIZATION REQUIRED FOR MAINLINE PAVEMENT WHICH CAN BE OMITTED IN THE ENTRANCE.)

RADIAL CURB OR COMBINATION CURB AND GUTTER SHALL NOT BE CONSTRUCTED BEYOND THE R/W LINE EXCEPT FOR REPLACEMENT PURPOSES.

WHEN USED IN CONJUNCTION WITH STANDARD CG-3 OR CG-7, THE CURB FACE ON THIS STANDARD IS TO BE ADJUSTED TO MATCH THE MOUNTABLE CURB CONFIGURATION.

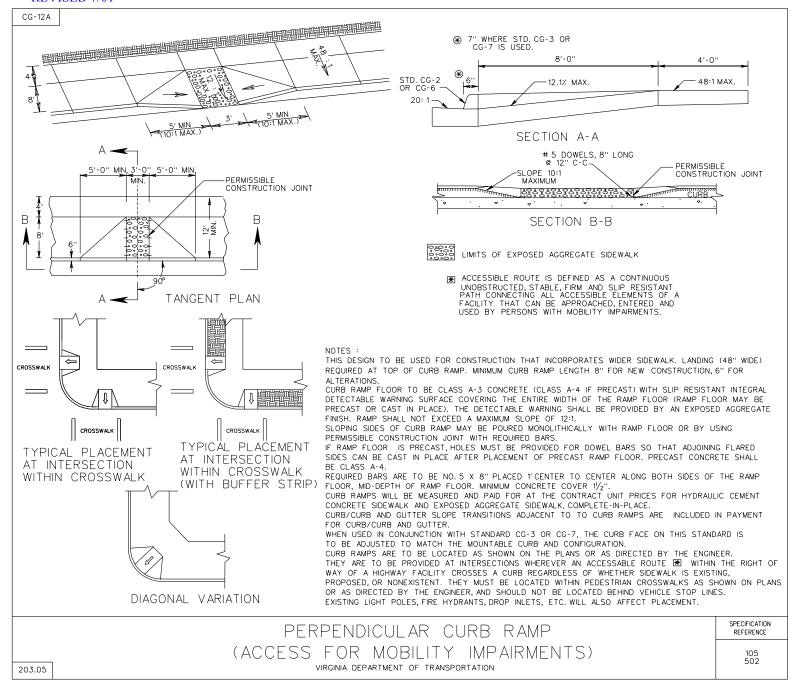
SEE STANDARD CG-12 FOR CURB RAMP DESIGN TO BE USED WITH THIS STANDARD.

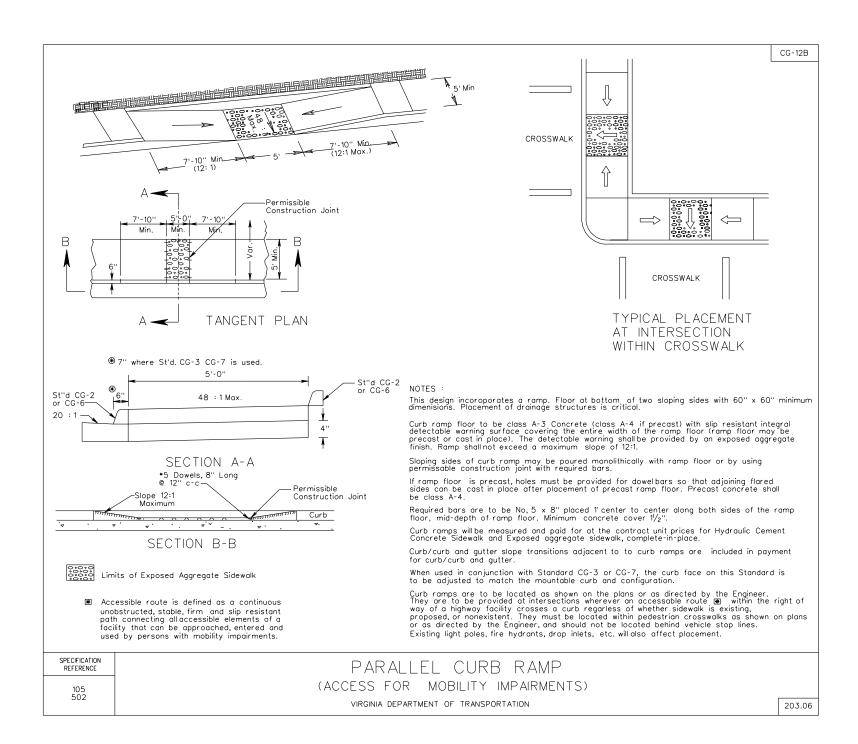
X PLANS ARE TO INDICATE WHEN CONSTRUCTION OF A FLOW LINE IS REQUIRED TO PROVIDE POSITIVE DRAINAGE ACROSS THE ENTRANCE.

OPTIONAL FLOWLINE MAY REQUIRE WARPING OF A PORTION OF GUTTER TO PRECLUDE PONDING OF WATER.

SPECIFICATION REFERENCE 502 METHOD OF TREATMENTCONNECTION FOR STREET INTERSECTIONS
AND COMMERCIAL ENTRANCES
VIRGINIA DEPARTMENT OF TRANSPORTATION

# REVISED 7/01





# REVISED 7/01

